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promptly, carefully and with fidelity, and in most cases without remuneration. His work as a mathematician was more conspicuous in the class room than in the production of mathematical literature. He was an admirable instructor, a strict disciplinarian, though never harsh. Every student who took his courses felt that he had received full reward for his time and efforts. He took a deep personal interest in the work of each of his students and was beloved, respected, and admired by the alumni, as was shown at every succeeding Commencement, and during his last illness and up to the time of his death.

JOHN VOSE HAZEN.

DARTMOUTH COLLEGE.

NEW BOOKS RECEIVED.

A BUDGET OF PARADOXES. By Augustus De Morgan. Reprinted, with the author's additions, from the *Athenæum*. Second edition. Edited by David Eugene Smith. The Open Court Publishing Co., Chicago, 1915. Volume I, viii+402 pages. Volume II, 387 pages. \$3.50 per volume.

FUNCTIONS OF A COMPLEX VARIABLE. By E. J. Townsend. Henry Holt and Co., New York, 1915. vii+378 pages. \$4.00.

DIOPHANTINE ANALYSIS. By R. D. Carmichael. Mathematical Monographs, No. 16. John Wiley and Sons, New York, 1915. vi+118 pages. \$1.25.

ANALYTIC GEOMETRY. By H. B. Phillips. John Wiley and Sons, New York, 1915. vii+193 pages. \$1.50.

ROBERT OF CHESTER'S LATIN TRANSLATION OF THE ALGEBRA OF AL-KHOWARIZMI, WITH AN INTRODUCTION, CRITICAL NOTES AND AN ENGLISH VERSION. By Louis Charles Karpinski. The Macmillan Co., New York, 1915. 164 pages.

THEORY AND APPLICATIONS OF FINITE GROUPS. By G. A. Miller, H. F. Blichfeldt and L. E. Dickson. John Wiley and Sons, New York, 1916. xvii+390 pages. \$4.00.

HISTORICAL INTRODUCTION TO MATHEMATICAL LITERATURE. By G. A. Miller. The Macmillan Co., New York, 1916. xiii+302 pages. \$1.60.

FUNDAMENTAL CONCEPTIONS OF MODERN MATHEMATICS. Variables and quantities with a discussion of the general conception of functional relation. By Robert P. Richardson and Edward H. Landis. The Open Court Publishing Co., Chicago, 1916. xxi+216 pages. \$1.25.

CONTRIBUTIONS TO THE FOUNDING OF THE THEORY OF TRANSFINITE NUMBERS. By George Cantor. Translated and provided with an introduction and notes by Philip E. B. Jourdain. The Open Court Publishing Company, Chicago, 1915. ix+211 pages. \$1.25.

ANALYTIC MECHANICS. By John Anthony Miller and Scott Barrett Lilly. D. C. Heath and Co., Boston, 1915. xv+297 pages. \$2.00.

THE ELEMENTS OF SURVEYING AND GEODESY. By W. C. Popplewell. Longmans, Green and Co., London, 1915. xi+244 pages. \$2.25.

PLANE AND SPHERICAL TRIGONOMETRY WITH TABLES. By George Wentworth and David Eugene Smith. Ginn and Co., Boston, 1915. iv+230+26+104 pages. \$1.35.

PLANE AND SOLID GEOMETRY. By Webster Wells and Walter W. Hart. D. C. Heath and Co., Boston, 1916. vi+467 pages.

SCHOOL ALGEBRA. First Course. By H. L. Rietz, A. R. Crathorne, and E. H. Taylor. Henry Holt and Co., New York, 1915. v+271 pages. \$1.00.

SCHOOL ALGEBRA. Second Course. By H. L. Rietz, A. R. Crathorne, and E. H. Taylor. Henry Holt and Co., New York, 1915. x+235 pages. \$.75.

FIRST YEAR MATHEMATICS FOR SECONDARY SCHOOLS. 4th edition. By Ernst R. Breslich. University of Chicago Press, Chicago, 1915. xxiv+345 pages. \$1.00.

A TWENTIETH CENTURY ARITHMETIC. By C. S. Jackson, F. J. W. Whipple, and Lucy Roberts. J. M. Dent and Sons, London, 1915. viii+495 pages.

PLANE GEOMETRY. By John W. Young and Albert J. Schwartz. Henry Holt and Co., New York, 1915. v+223 pages. \$1.00.

HOW TO STUDY AND WHAT TO STUDY. By Richard L. Sandwick. D. C. Heath and Co., Boston, 1915. v+170 pages. \$.60.

FUNDAMENTAL SOURCES OF EFFICIENCY. By Fletcher Durell. J. B. Lippincott and Co., Phila., 1914. 368 pages. \$2.50.

BOOK REVIEWS.

Send all communications to W. H. BUSSEY, University of Minnesota.

Robert of Chester's Latin Translation of the Algebra of Al-Khowarizmi with an Introduction, Critical Notes and an English Version. By LOUIS CHARLES KARPINSKI, University of Michigan. The Macmillan Co., New York, 1915. 164 pages.

This monograph impresses the reader as being an exceedingly thorough study. It exhibits the modern trend toward a more searching and more critical study of historic material. Its scope is comprehensive. It is much more than a reprint of Robert of Chester's Latin translation from the Arabic, accompanied by a translation into English. It contains in outline the development of algebra before the time of Al-Khowarizmi, an account of Al-Khowarizmi's Algebra and Arithmetic, and their bearing upon the development of mathematics. Much biographical detail is gleaned from out-of-the-way sources, pertaining to Al-Khowarizmi, Robert of Chester and other medieval writers who prepared translations of, or were directly influenced by, the algebra of the great Mohammedan. Robert of Chester's Latin translation was made in the twelfth century. The different extant manuscripts are compared and the deviations from the text of Scheybl, which is followed in this edition, are given in foot-notes with a minutia that seems almost excessive. A Latin glossary assists the reader in making out the medieval